



Town Of Clarkson Office of the Supervisor Pre-Disaster Mitigation Plan

Appendix B – 4N

Hazard Specific Analysis: Flood

Definition:

“Usually a cyclic occurrence in existing waterbodies. When a waterbody overflows its normal banks, a potentially violent and/or destructive waterway can form. A flash flood is a sudden transformation of a small stream into a violent waterway after heavy rain and/or rapid snowmelt.¹ Additionally, a floodplain is defined as an area adjoining a watercourse, which is expected to be flooded as a result of severe combinations of meteorological and hydrological conditions.”²

Description:

Flooding is the number one natural hazard in New York State.³ It is likely the most frequent hazard in the Town of Clarkson. It has a hazard ranking of 2. Floods occur in many local jurisdictions. Floods may cause damage to crops, soil, structures, and inconvenience or restrict travel. Floods may also create cascade effects, such as power outages, sewer backups and system surcharges, and dangerous road conditions.

Overview of specific hazard locations and the extent of the hazard:

Floods affect these areas of Monroe County:

- ?? Residential property in the Town of Clarkson.
- ?? Agricultural property throughout the Town
- ?? Locations around creeks and riverbeds, including Brockport Creek, Morman Creek, Otis Creek

1 HAZNY

2 County of Monroe County, Department of Planning, Floodplain Management, Rochester, NY

January 1974

3 SEMO

- ?? While the portion of the Erie Canal located within the Town of Clarkson is for the most part is at grade, the Canal located within the adjacent Village of Brockport is above grade, and a break in the Canal Wall would have a devastating effect on the Town Of Clarkson

Previous occurrences of the hazard:

Monroe County experiences flooding and/or flash flooding annually. The most significant flooding occurred:

- ?? June 23 – June 26, 1972. These dates signify Monroe County flooding that occurred as a residual effect of Hurricane Agnes. Federal disaster was declared on June 23, 1972.
- ?? February & July 1976. Severe storms, heavy rains, flooding and thunderstorms.
- ?? March & April, 1993. The County Emergency Operations Center (EOC) was activated on March 30, 1993 for 4 hours. The EOC was activated on April 1st for 39.5 hours.
- ?? January 19, 1996. The County EOC was activated for 2 hours.
- ?? January 8, 1998. The County EOC was activated for 30 minutes. This event prompted a disaster declaration by President Clinton.

Probability of future occurrences and potential magnitude:

Probability of future occurrences is very high. Monroe County experiences floods and/or flash floods of varying magnitude nearly every year. Due to the localized geographic area, ability to forecast occurrences, and mitigable features of this hazard (i.e. acquisition and relocation, building codes, floodwalls, etc.), the potential magnitude of this event is mild to moderate.

Maps of hazard areas:

Flood maps attached:

- ?? Map I: Flood Plain Map for the Town of Clarkson.
- ?? Map II: Map depicting local waterways and their locations.

Analysis of the impact on business, infrastructure & critical facilities:

This event may:

- ?? Cause failure of utility systems and/or sewage and drainage systems.
- ?? Delay or restrict transportation.
- ?? Cause damage to buildings, basement flooding, and other water damage.

?? Cause soil degradation, crop destruction, and other agricultural damage.

?? Lead to loss of business: production/ manufacturing, and retail losses to closed businesses.

Specific information concerning estimated value (\$) of potential loss, damage to structures, casualties, etc:

Specific information regarding past damage value estimates is based on 2000 National Flood Insurance Program (NFIP) data:

?? Between 1978 and 1999, Monroe County insured filed 430 insurance claims for flood damage, with a damage value of \$997,820.

?? The total number of insured structures within Monroe County in 1999 was 2,009.

?? It is estimated that only 20% of structures within Monroe County flood plains are insured against flooding.

Notes on data limitations: None